Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Practice Quiz: Predicting the Products of Chemical Reactions**

Identify each reaction below as synthesis, decomposition, double replacement or combustion. Then, predict the products. If a single replacement reaction will not occur, then write “NR.” **FOR DOUBLE REPLACEMENT REACTIONS**, determine whether each product is soluble (aq) or insoluble (s). You do NOT need to balance the equations.

| **Reaction Type (S, D, DR, C)** | **Chemical Equation** |
| --- | --- |
|  | 1. C4H10 + O2 🡪 |
|  | 1. Al + N2 🡪 |
|  | 1. FeCl3(aq) + Ca(OH)2(aq) 🡪 |
|  | 1. Li2O 🡪 |
|  | 1. Be + O2 🡪 |
|  | 1. CaSO4(aq) + SrCl2(aq) 🡪 |
|  | 1. Cu+3 + S 🡪 |
|  | 1. HCl(aq) + KOH(aq) 🡪 |
|  | 1. NaF 🡪 |
|  | 1. C2H2 + O2 🡪 |
|  | 1. HgO 🡪 |
|  | 1. KClO3 🡪 |
|  | 1. C6H6 + O2 🡪 |
|  | 1. Ca + S 🡪 |
|  | 1. Magnesium chlorate + ammonium nitrate 🡪 |

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Makeup Quiz: Predicting the Products of Chemical Reactions**

Identify each reaction below as synthesis, decomposition, double replacement or combustion. Then, predict the products. **FOR DOUBLE REPLACEMENT REACTIONS**, determine whether each product is soluble (aq) or insoluble (s). You do NOT need to balance the equations.

| **Reaction Type (S, D, DR, C)** | **Chemical Equation** |
| --- | --- |
|  | 1. C4H10 + O2 🡪 |
|  | 1. Al + N2 🡪 |
|  | 1. AlNO3 + Fe+3 🡪 |
|  | 1. FeCl3(aq) + Ca(OH)2(aq) 🡪 |
|  | 1. Li2O 🡪 |
|  | 1. Be + O2 🡪 |
|  | 1. CaSO4(aq) + SrCl2(aq) 🡪 |
|  | 1. Cu+3 + S 🡪 |
|  | 1. HCl(aq) + KOH(aq) 🡪 |
|  | 1. NaF 🡪 |
|  | 1. C2H2 + O2 🡪 |
|  | 1. HgO 🡪 |
|  | 1. NaCl + F2 🡪 |
|  | 1. CaO + Mg 🡪 |
|  | 1. C6H6 + O2 🡪 |
|  | 1. Ca + S 🡪 |